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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,126	09/19/2003	Richard C. Conrad	6539US	7162
	7590 06/02/200 SYSTEMS INC.	EXAMINER		
2130 WOODW	ARD STREET		KIM, TAEYOON	
AUSTIN, TX 78744-1832			ART UNIT	PAPER NUMBER
			1651	
			MAIL DATE	DELIVERY MODE
			06/02/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)		
	10/667,126	CONRAD, RICHARD C.		
Office Action Summary	Examiner	Art Unit		
	Taeyoon Kim	1651		
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address		
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be ti I will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status				
Responsive to communication(s) filed on 19 № 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pr			
Disposition of Claims				
4) Claim(s) 50,53 and 57-63 is/are pending in th 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 50,53 and 57-63 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	ee 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/19/2009.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	oate		

DETAILED ACTION

Applicant's amendment and response filed on 3/19/2009 has been received and entered into the case.

Claims 50, 53 and 57-63 are pending and have been considered on the merits.

All arguments have been fully considered.

In the response to the previous office action, applicant argued that the limitation of "at least about 55%" is clearly supported by the data and by the specification as cited. As indicated in the previous office action, the question here is whether the limitation introduces a new matter, which includes a change of the range covering by the limitation. Thus, the limitation of "at least about 55%" which covers about 55% and more, and there is no upper limit due to the term "at least". As indicated by applicant, the specification discloses 55%, 60%, 65% and 70% ethanol, and this is not sufficient to support the broader range of "at least about 55%". Therefore, the limitation introduces a new matter to the instant application.

In amended cases, subject matter not disclosed in the original application is sometimes added and a claim directed thereto. Such a claim is rejected on the ground that it recites elements without support in the original disclosure under 35 U.S.C. 112, first paragraph, *Waldemar Link, GmbH & Co. v. Osteonics Corp.* 32 F.3d 556, 559, 31 USPQ2d 1855, 1857 (Fed. Cir. 1994); *In re Rasmussen,* 650 F.2d 1212, 211 USPQ 323 (CCPA 1981). See MPEP § 2163.06 - § 2163.07(b) for a discussion of the relationship of new matter to 35 U.S.C. 112, first paragraph. New matter includes not only the addition of wholly unsupported subject matter, but may also include adding

specific percentages or compounds after a broader original disclosure, or even the omission of a step from a method. See MPEP § 608.04 to § 608.04(c). See *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976).

MPEP § 2163.05 states that "With respect to changing numerical range limitations, the analysis must take into account which ranges one skilled in the art would consider inherently supported by the discussion in the original disclosure. In the decision in *In re Wertheim*, 541 F.2d 257, 191 USPQ 90 (CCPA 1976), the ranges described in the original specification included a range of "25%- 60%" and specific examples of "36%" and "50%." A corresponding new claim limitation to "at least 35%" did not meet the description requirement because the phrase "at least" had no upper limit and caused the claim to read literally on embodiments outside the "25% to 60%" range, however a limitation to "between 35% and 60%" did meet the description requirement.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 50, 53 and 57-63 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential steps, such omission amounting to a gap between the steps. See MPEP § 2172.01.

The step (c) drawn to adding to the lysate an alcohol solution to form a lysate/alcohol mixture of about 20% to about 35% alcohol in claim 50 is apparently

carried out after the step of (b) drawn to a step of extracting RNA molecules from the lysate with an extraction solution comprising phenol. There is an omitted step of recovery after phenol extraction, and the step (c) should be carried out with the recovered material from the step (b), rather than "the lysate".

Apparently the aqueous phase of phenol extraction comprises RNA, and this aqueous phase is not considered as "lysate", and thus, it is not clear whether the step (c) is carried out after the recovery of RNA from the phenol extraction step of (b) or the lysate of (a) is mixed with the extraction solution comprising phenol of (b) and alcohol of (c). Clarification is required.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 50, 53 and 57-63 stand rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The newly added limitation of "at least about 55%" in step (f) and (g) of claim 50 and its dependent, and also in claim 58 introduces a new matter to the current application.

Applicant indicated in the amendment that there are support for the limitation showing the examples at Example 1, 3, 6, 7 and 8. It is acknowledged that there are

Art Unit: 1651

disclosures of "about 55%" or "55%" in the Examples. However, the specification failed to disclose the broader range of "at least about 55%". This limitation is considered as "about 55% and more", which is broader than "about 55%" or "55%". However, the specification only discloses "about 55%" in Example 7, or "55%" in Examples 1, 3, 6 and 8 for the ethanol concentration used for eluting small RNA in the method. Therefore, the range of "at least about 55%" as introduced in the current amendment is a new matter to the instant application.

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taeyoon Kim whose telephone number is (571)272-9041. The examiner can normally be reached on 8:00 am - 4:00 pm ET (Mon-Thu). If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached on 571-272-0926. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Taeyoon Kim/ Examiner, Art Unit 1651